



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/776,658	02/11/2004	Stephen O. Bozzone	7463-36 CE12125JME	3381
30448	7590	11/21/2007	EXAMINER	
AKERMAN SENTERFITT P.O. BOX 3188 WEST PALM BEACH, FL 33402-3188			SOBUTKA, PHILIP	
ART UNIT		PAPER NUMBER		
2618				
MAIL DATE		DELIVERY MODE		
11/21/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/776,658	BOZZONE ET AL.
	Examiner	Art Unit
	Philip J. Slobutka	2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 03 August 2007.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-20 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 11 February 2004 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____.
 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____.
 5) Notice of Informal Patent Application
 6) Other: _____.

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1, 4-6,14-17, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Erkkila et al (US 6,219,560) in view of Sterkel (US 6,907,264).

Consider claim 1. Erkkila teaches a modular wireless communication module, comprising:

a transceiver (*Erkkila see figure 5, item 59*) coupled to a processor (*Erkkila see figure 5, item 51*) and memory (*Erkkila see figure 5, item 53*); and
an interface block coupled to the processor (*Erkkila see figure 5, item 50*),
wherein the processor is programmed to operate in accordance with an identifier signal (*Erkkila teaches the attached devices including identifying information for example on column 6, lines 6-30*) received from at least one among a plurality of detachable host devices (*note that the claimed "host" devices are in fact merely attached devices such as camera, game controller, or MP3 player as described in instant paragraph 29 of the instant specification. Note that Erkkila in contrast refers to the wireless module as the "host" device rather than the attachments*)

Erkkila lacks a teaching of each detachable device having different user interfaces and the processor adapts to control a user interface of a detachable host device based on the identifier signal identifying the user interface .

Sterkel teaches a wireless module with detachable devices wherein the wireless module controls the user interface of the detachable device (*Sterkel see for example figures 2,3, column 6, lines 50-60*). It would have been obvious to one of ordinary skill in the art to modify Erkkila to also control the user interface of the detachable device as taught by Sterkel in order to further increase the optional features available via attaching the detachable module.

As to claim 4, Erkkila teaches the modular wireless communication module of claim 3, wherein the display presents content associated with a given detachable host device among the plurality of detachable host devices (*Erkkila see column 6, lines 1-6.*

Note that the claimed "host" devices are in fact merely attached devices such as camera, game controller, or MP3 player as described in instant paragraph 29 of the instant specification. Note that Erkkila in contrast refers to the wireless module as the "host" device rather than the attachments).

As to claim 5, Erkkila teaches the modular wireless communication module of claim 1, wherein the processor controls the operation of a given detachable host device once coupled to the given detachable host device (*Erkkila see column 6, lines 1-6. Note that the claimed "host" devices are in fact merely attached devices such as camera, game controller, or MP3 player as described in instant paragraph 29 of the instant specification. Note that Erkkila in contrast refers to the wireless module as the "host" device rather than the attachments).*

As to claim 6, Erkkila teaches the modular wireless communication module of claim 1, wherein the module further comprises an antenna coupled to the transceiver (*Erkkila see figure 5*).

Consider claim 14. Erkkila teaches an adaptable communication module, comprising:

a radio communication transceiver that identifies a user interface of a detachable host device (*Erkkila teaches the attached devices including identifying information for*

example on column 6, lines 6-30), wherein the processor is adaptively (Erkkila see figure 5, item 59, figure 5, item 51) programmed to operate with and control a plurality of different detachable host devices having different user interfaces (Erkkila discusses the plurality of devices that can be controlled for example on column 6, lines 1-38. Note that the claimed "host" devices are in fact merely attached devices such as camera, game controller, or MP3 player as described in instant paragraph 29 of the instant specification. Note that Erkkila in contrast refers to the wireless module as the "host" device rather than the attachments); and

Erkkila lacks a teaching of each detachable device having different user interfaces and the processor adapts to control a user interface of a detachable host device based on the identifier signal identifying the user interface .

Sterkel teaches a wireless module with detachable devices wherein the wireless module controls the user interface of the detachable device (*Sterkel see for example figures 2,3, column 6, lines 50-60*). It would have been obvious to one of ordinary skill in the art to modify Erkkila to also control the user interface of the detachable device as taught by Sterkel in order to further increase the optional features available via attaching the detachable module.

As to claim 15, Erkkila teaches the adaptable communication module of claim 14, wherein the adaptable communication module further comprises a presentation device coupled to the processor for presenting information associated with the adaptable communication module and a given detachable host device among the plurality of host devices (*Erkkila see column 6, lines 1-6. Note that the claimed "host" devices are in fact*

merely attached devices such as camera, game controller, or MP3 player as described in instant paragraph 29 of the instant specification. Note that Erkkila in contrast refers to the wireless module as the “host” device rather than the attachments).

As to claim 16, Erkkila teaches the adaptable communication module of claim 15, wherein the presentation device is selected from among a display and a speaker (Erkkila see figure 5).

As to claim 17, Erkkila teaches the adaptable communication module of claim 14, wherein the plurality of detachable host devices each includes an interface block for interfacing with the interface block of the adaptable communication module devices (Erkkila see figures 6,7, item 60. Note that the claimed “host” devices are in fact merely attached devices such as camera, game controller, or MP3 player as described in instant paragraph 29 of the instant specification. Note that Erkkila in contrast refers to the wireless module as the “host” device rather than the attachments).

Consider claim 20. Erkkila teaches a method of reusing a modular wireless communication module among a plurality of different host devices, comprising:

selectively coupling the modular wireless communication module with a first detachable host device (Erkkila see column 6, lines 1-6. Note that the claimed “host” devices are in fact merely attached devices such as camera, game controller, or MP3 player as described in instant paragraph 29 of the instant specification. Note that Erkkila in contrast refers to the wireless module as the “host” device rather than the

attachments) having a first user interface (Erkkila teaches the attached devices having their own interfaces for example on column 4, lines 42-61, column 5, lines 1-15);

recognizing the first host device to enable a processor within the modular wireless communication module to adaptively control the first host device (*Erkkila teaches the attached devices including identifying information for example on column 4, lines 13-25, column 6, lines 6-30*);

selectively coupling the modular wireless communication module with at least a second detachable host device (*Erkkila see column 4, lines 13-62, column 6, lines 1-6*); and

recognizing the second detachable host device to enable the processor within the modular wireless communication module to adaptively control the second detachable host device (*Erkkila teaches the attached devices including identifying information for example on column 4, lines 13-25, column 6, lines 6-30*).

Erkkila lacks a teaching of each detachable device having different user interfaces and the processor adapts to control a user interface of a detachable host device based on the identifier signal identifying the user interface .

Sterkel teaches a wireless module with detachable devices wherein the wireless module controls the user interface of the detachable device (*Sterkel see for example figures 2,3, column 6, lines 50-60*). It would have been obvious to one of ordinary skill in the art to modify Erkkila to also control the user interface of the detachable device as taught by Sterkel in order to further increase the optional features available via attaching the detachable module.

2. Claims 7-12, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Erkkila in view of Sterkel and in view of Barber (US 6,029,072)

Consider claim 7. Erkkila teaches a modular communication system, comprising:
a modular wireless communication module having a transceiver (*Erkkila see figure 5, item 59*) coupled to a processor (*Erkkila see figure 5, item 51*) and memory (*Erkkila see figure 5, item 53*) and

a first interface block coupled to the processor (*Erkkila see figure 5, item 50*);
a detachable host device (*Erkkila see column 6, lines 1-6. Note that the claimed "host" devices are in fact merely attached devices such as camera, game controller, or MP3 player as described in instant paragraph 29 of the instant specification. Note that Erkkila in contrast refers to the wireless module as the "host" device rather than the attachments*)

wherein the host device is one among a plurality of host devices and the processor identifies a user interface of the detachable host device (*Erkkila teaches the attached devices including identifying information for example on column 6, lines 6-30*)

Erkkila lacks a teaching of each detachable device having different user interfaces and the processor adapts to control a user interface of a detachable host device based on the identifier signal identifying the user interface .

Sterkel teaches a wireless module with detachable devices wherein the wireless module controls the user interface of the detachable device (*Sterkel see for example*

figures 2,3, column 6, lines 50-60). It would have been obvious to one of ordinary skill in the art to modify Erkkila to also control the user interface of the detachable device as taught by Sterkel in order to further increase the optional features available via attaching the detachable module.

Erkkila lacks a teaching of the attached (host) device having its own power source.

Barber teaches attaching devices to a wireless device wherein the attached device has its own power supply (*Barber see figures 2,3*). Barber teaches using the power supply of the attached device to charge the battery of the wireless module (*Barber see column 4, lines 25-50*). It would have been obvious to one of ordinary skill in the modify the attached device of Erkkila to have its own power in order to allow the attached device to charge the battery of the wireless module as taught by Barber.

8. The modular communication system of claim 7, wherein the modular wireless communication module further comprises a digital signal processor coupled to the processor (*Erkkila see figure 5, item 52*).

9. The modular communication system of claim 7, wherein the modular wireless communication module further comprises a display coupled to the processor (*Erkkila see figure 5, item 55*).

10. The modular communication system of claim 9, wherein the display presents content associated with a given detachable host device among the plurality of detachable host devices (*Erkkila see column 6, lines 1-6. Note that the claimed "host" devices are in fact merely attached devices such as camera, game controller, or MP3*

player as described in instant paragraph 29 of the instant specification. Note that Erkkila in contrast refers to the wireless module as the “host” device rather than the attachments).

11. The modular communication system of claim 7, wherein the processor controls the operation of a given detachable host device once coupled to the given detachable host device (*Erkkila see column 4, line 15 – column 5, line 6, column 6, lines 1-6*).

12. The modular communication system of claim 7, wherein the module further comprises an antenna coupled to the transceiver (*Erkkila see figure 5*).

Consider claim 19. Erkkila teaches a detachable host device (*Erkkila see column 6, lines 1-6. Note that the claimed “host” devices are in fact merely attached devices such as camera, game controller, or MP3 player as described in instant paragraph 29 of the instant specification. Note that Erkkila in contrast refers to the wireless module as the “host” device rather than the attachments*) for mating with a modular wireless communication module having a first interface block (*Erkkila see figure 5, item 50*) and a transceiver (*Erkkila see figure 5, item 59*) coupled to a processor (*Erkkila see figure 5, item 51*), comprising:

a second interface block (*Erkkila see figure 6,7, item 60*), wherein the detachable host device is one among a plurality of detachable host devices controlled by the processor when the first interface block recognizes the second interface block of the host device and a processor in the modular wireless communication module identifies

the user interface in the detachable host device (*Erkkila teaches the attached devices including identifying information for example on column 4, lines 15 - column 5, line 15, column 6, lines 6-30*).

Erkkila lacks a teaching of each detachable device having different user interfaces and the processor adapts to control a user interface of a detachable host device based on the identifier signal identifying the user interface .

Sterkel teaches a wireless module with detachable devices wherein the wireless module controls the user interface of the detachable device (*Sterkel see for example figures 2,3, column 6, lines 50-60*). It would have been obvious to one of ordinary skill in the art to modify Erkkila to also control the user interface of the detachable device as taught by Sterkel in order to further increase the optional features available via attaching the detachable module.

Erkkila lacks a teaching of the attached (host) device having its own power source.

Barber teaches attaching devices to a wireless device wherein the attached device has its own power supply (*Barber see figures 2,3*). Barber teaches using the power supply of the attached device to charge the battery of the wireless module (*Barber see column 4, lines 25-50*). It would have been obvious to one of ordinary skill in the modify the attached device of Erkkila to have its own power in order to allow the attached device to charge the battery of the wireless module as taught by Barber.

3. Claims 2,3,13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Erkkila in view of Sterkel.

Consider claim 13. Erkkila teaches the modular communication system of claim 7, but lacks a teaching of wherein a given host device among the plurality of host devices is selected from the group of a monolith phone, a flip phone, a wristwatch communicator, a camera phone, a video phone, a qwerty key-board host device, a pendant-shaped host device, an MP3 player device, a heart rate monitor, a game controller host, a toy, a stroller, and a crib (*note that the claimed "host" devices are in fact merely attached devices such as camera, game controller, or MP3 player as described in instant paragraph 29 of the instant specification. Note that Erkkila in contrast refers to the wireless module as the "host" device rather than the attachments. Note also that Erkkila envisions that the wireless module could be used with a variety of devices as described in column 2, lines 33-40, column 3, lines 5-20, column 4, lines 39-61, column 9, lines 25-55*).

Official Notice is taken that it is known to attach all of the claimed devices to a wireless transceiver. Therefore it would have been obvious to one of ordinary skill in the art to modify Erkkila to attach the claimed devices in order to provide the attached device with wireless capabilities.

As to claim 2, Erkkila teaches the modular wireless communication module of claim 1, wherein the module further comprises a digital signal processor coupled to the processor (*Erkkila see figure 5, item 52*) that includes the specific software needed for control of the different user interfaces (*Erkkila see column 3, lines 42-62*). Erkkila lacks

a teaching of the control software including user preferences. Official Notice is taken that it is notoriously well known in the art for control software to include user preferences. Therefore it would have been obvious to one of ordinary skill in the art to modify Erkkila as shown in the claims to store user preferences as well as the control software in order to eliminate the need for users to reset preferences each time the user desired to use the interface.

As to claim 3, Erkkila teaches the modular wireless communication module of claim 1, wherein the module further comprises a display coupled to the processor (*Erkkila see figure 5, item 55*), and wherein the display presents input from the user interface of the detachable host in accordance with the specific software needed for control of the different user interfaces (*Erkkila see column 3, lines 42-62*). Erkkila lacks a teaching of the control software including user preferences. Official Notice is taken that it is notoriously well known in the art for control software to include user preferences. Therefore it would have been obvious to one of ordinary skill in the art to modify Erkkila as shown in the claims to store user preferences as well as the control software in order to eliminate the need for users to reset preferences each time the user desired to use the interface.

4. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Erkkila in view of Sterkel and in view of Barber.

Consider claim 18. Erkkila in view of Sterkel and in view of Barber teaches the adaptable communication module of claim 14, but lacks a teaching of wherein a given

detachable host device among the plurality of detachable host devices is selected from the group of a monolith phone, a flip phone, a wristwatch communicator, a camera phone, a video phone, a qwerty key-board host device, a pendant-shaped host device, an MP3 player sport device, a heart rate monitor, a game controller host, a toy, a stroller, and a crib (*note that the claimed "host" devices are in fact merely attached devices such as camera, game controller, or MP3 player as described in instant paragraph 29 of the instant specification. Note that Erkkila in contrast refers to the wireless module as the "host" device rather than the attachments. Note also that Erkkila envisions that the wireless module could be used with a variety of devices as described in column 2, lines 33-40, column 3, lines 5-20, column 4, lines 39-61, column 9, lines 25-55*).

Official Notice is taken that it is known to attach all of the claimed devices to a wireless transceiver. Therefore it would have been obvious to one of ordinary skill in the art to modify Erkkila to attach the claimed devices in order to provide the attached device with wireless capabilities.

Response to Amendment

5. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip J Sobotka whose telephone number is 571-272-7887. The examiner can normally be reached Monday through Friday from 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew D. Anderson can be reached on 571-272-4711.

5. The central fax phone number for the Office is 571-273-8300.

Most facsimile-transmitted patent application related correspondence is required to be sent to the Central FAX Number.

CENTRALIZED DELIVERY POLICY: For patent related correspondence, hand carry deliveries must be made to the Customer Service Window (now located at the Randolph Building, 401 Dulany Street, Alexandria, VA 22314), and facsimile transmissions must be sent to the Central FAX number, unless an exception applies. For example, if the examiner has rejected claims in a regular U.S. patent application, and the reply to the examiner's Office action is desired to be transmitted by facsimile rather than mailed, the reply must be sent to the Central FAX Number.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/776,658
Art Unit: 2618

Page 16

Philip J. Sobutka 11/19/07

Philip J Sobutka
(571) 272-7887

PHILIP J. SOBUTKA
PATENT EXAMINER